

Well Intervention

Tempress HydroPull™

HydroPull™ enables Operators to mill more frac plugs and clean-out extreme laterals in the Eagle Ford.

Customer Challenge:

An Operator in the Eagle Ford anticipated having challenges with reaching the bottom of three long lateral wells in one run which would result in drilling delays. The three wells were on the same pad with an average number of composite plugs per well of 33.

The operator needed a solution to efficiently mill out all of the composite plugs in one run utilizing coiled tubing to achieve plug back total depth (PBD) in the three wells. Achieving this would minimize downtime, reduce the number of bottom hole assembly (BHA) trips, and decrease drill time per plug.

Reservoir Group Solution

Reservoir Group purposed that the composite plugs be milled out with one BHA per well, utilizing the Tempress HydroPull™ tool to overcome friction issues and reach PBD on each of the three wells in one run.

The HydroPull is known for enabling companies to mill more frac plugs and clean-out extreme laterals in a single run without having to do a second or third trip to replace BHA components.



The Results:

Three wells were on the same pad with an average lateral length of 10,954 feet, and an averaged total measured depth (TMD) of 21,223 ft. The average number of composite plugs per well was 33 plugs with two of the wells having as many as five dissolvable plugs.

Reservoir Group was able to solve the issue encountered by multiple operators - reaching the bottom of long lateral wells, in one run, when utilizing coiled tubing during plug milling.

HydroPull™ Consistently Breaks Records for Extended Reach:

- PBD was reached on all three wells, reaching the bottom of each well with no issues
- Each well was achieved in a single run with one BHA per well
- In-hole time per well was reduced (average per-plug drill time for all three wells was 2.97 minutes/plug) due to the improved rate of penetration
- The average Run-In-Hole (RIH) to Out-Of-Hole (OOH) was 28 hours, prior to using the HydroPull tool, the operator was averaging 36 hours.

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The HydroPull™ Advantage

The HydroPull™ anti-friction tool is consistently breaking industry records for extended reach applications. Combined with the Reservoir Group expertise and service, we are helping our clients reach PBD – enabling Operators to save time and money by increasing their chances of reaching plug back total depth, in one trip and one BHA assembly.

Reservoir Group's High-Standard of Service Quality

Before the milling operation, Reservoir Group's team of experts formulated a strategy to manage debris and achieve depth with the Operator. Our well-defined Quality Management System (QMS) enabled the Operator the ability to view all inspections and rebuild documentation on the BHA selected for the milling operation.

In addition, our tool tracking system allowed the client to view BHA's run, motor, or circulating hours and time in well. Our proprietary job tracking and post job reporting software system, Direct™, provided reports after each run; the report included recorded depths, pressures, flow rates, milling times, and time between plugs. This information allows the Operator to make any necessary changes for subsequent runs.

Reservoir Group's milling team has well-trained motor technicians that ensure the downhole motor was fitted with the proper new stator to meet performance requirements.

